Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P322385

Luminaire Tested: **GLEON-SA1A-830-U-T3-HSS**

Issue Date: 3/3/2020

Report Generated By E0585644

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P322385
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA1A-830-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
	WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2826 lumens
Efficiency:	N/A
Efficacy:	83.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B0 - U0 - G1

Input Watts (W):	34
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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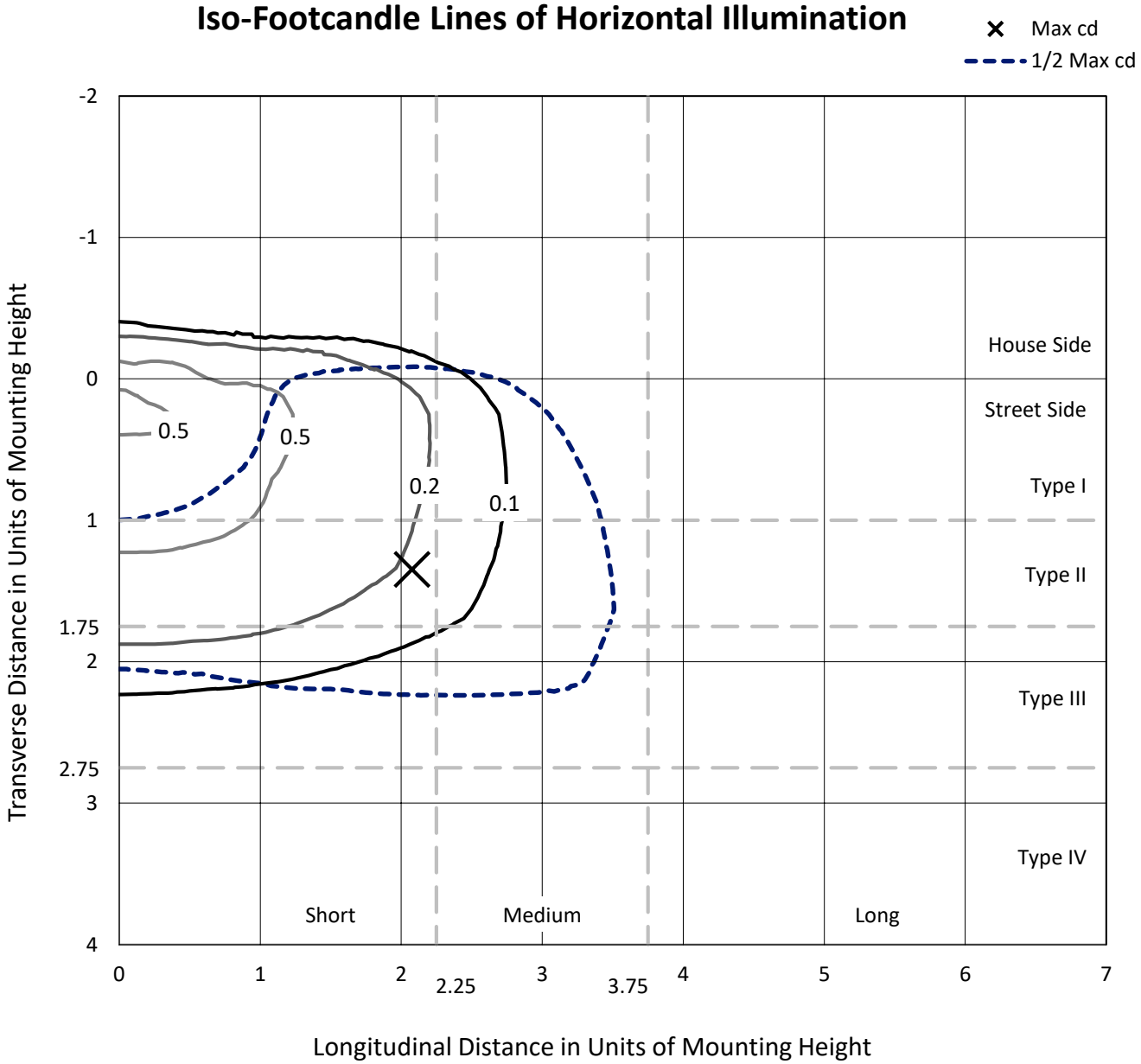
REPORT NUMBER: P322385
CATALOG NUMBER: GLEON-SA1A-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type III - Short - N/A

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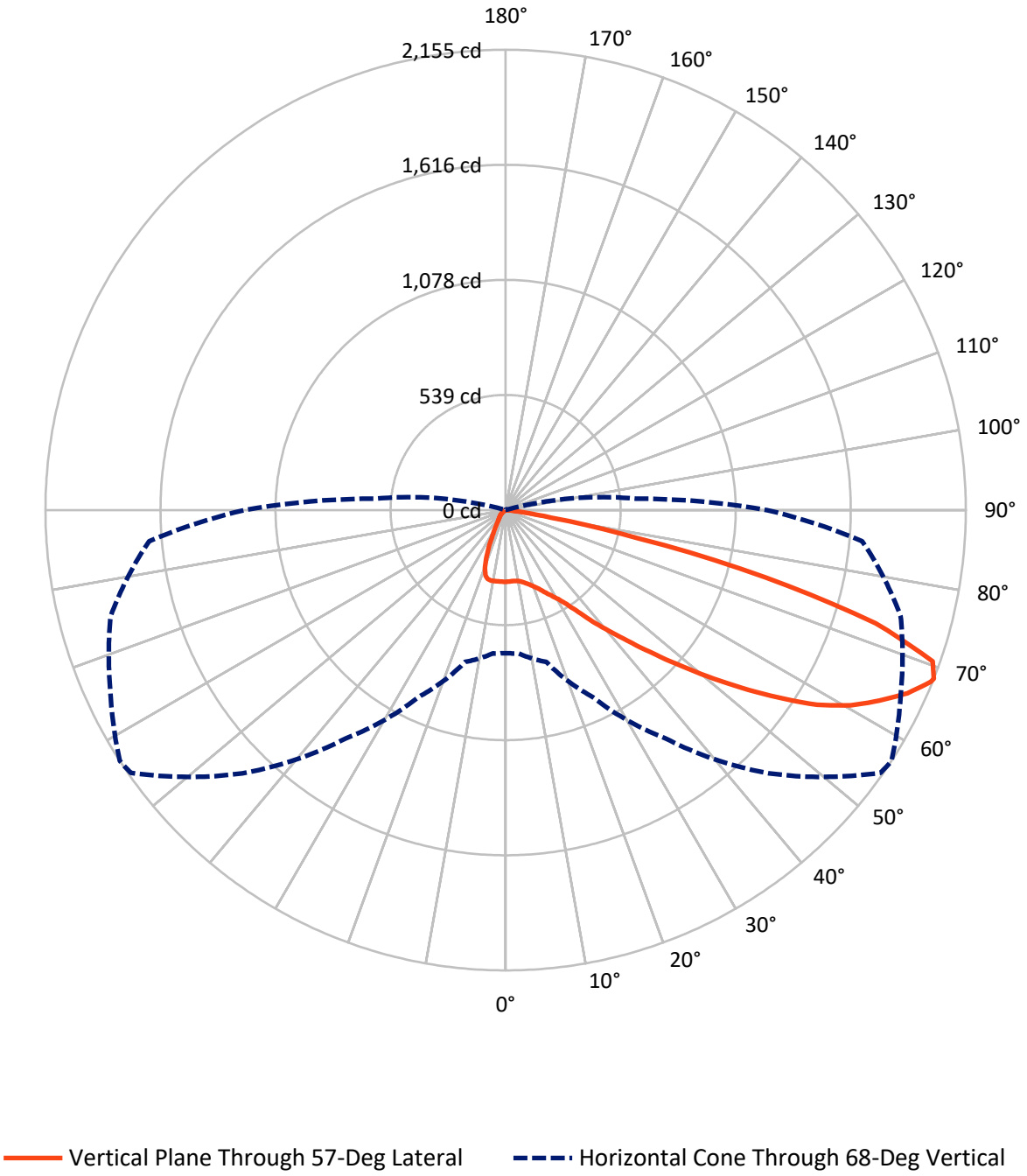
Luminous Intensity Polar Plot



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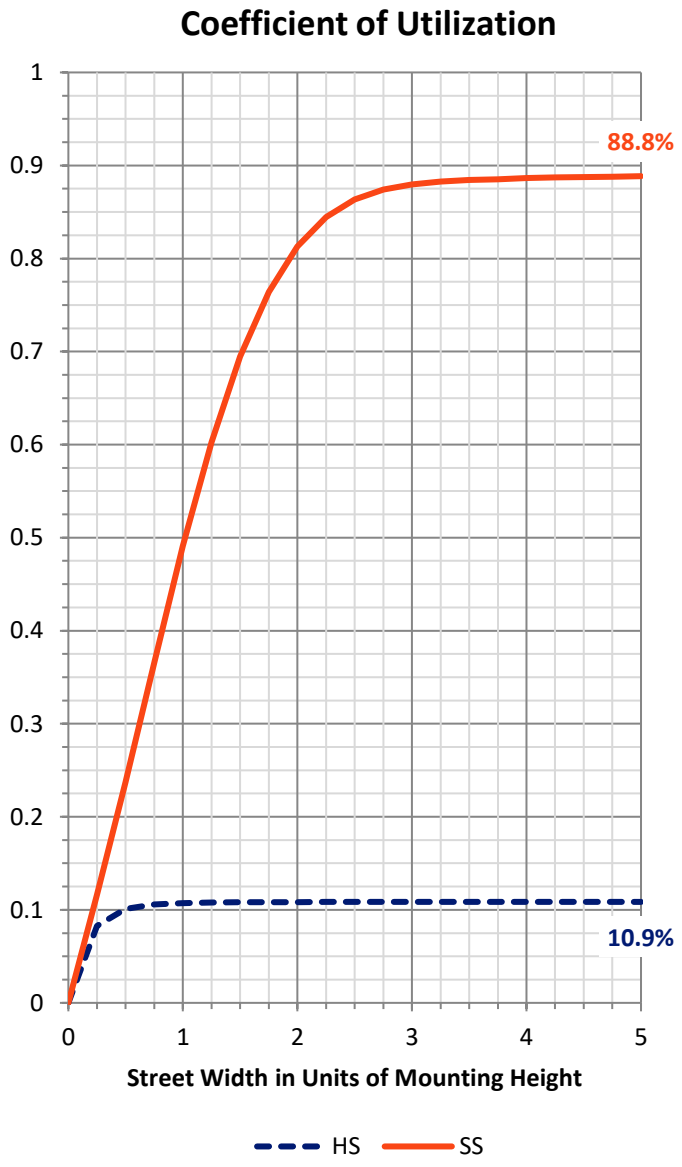
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	309.9	0.0	309.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	2516.1	0.0	2516.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	2826.0	0.0	2826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.4	1.1
10°-20°	87.1	3.1
20°-30°	150.2	5.3
30°-40°	259.3	9.2
40°-50°	443.5	15.7
50°-60°	709.6	25.1
60°-70°	819.9	29.0
70°-80°	313.3	11.1
80°-90°	11.7	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2826.0	100.0
0°-180°	2826.0	100.0



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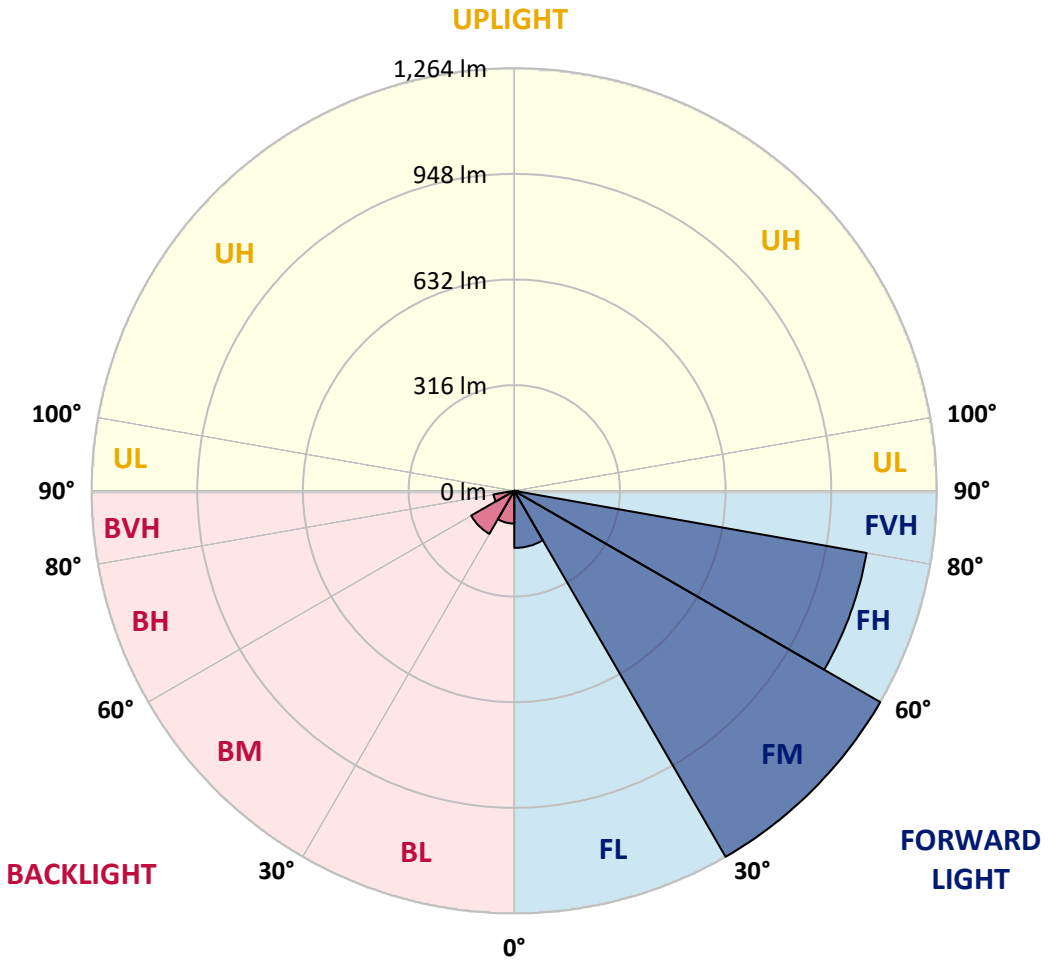
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	170.8	6.0			
FM	(30°-60°)	1263.8	44.7			
FH	(60°-80°)	1070.0	37.9			G1/1800
FVH	(80°-90°)	11.5	0.4			G1/100
BL	(0°-30°)	97.9	3.5	B0/110		
BM	(30°-60°)	148.6	5.3	B0/220		
BH	(60°-80°)	63.1	2.2	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type III Short



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REPORT NUMBER: P322385
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	335.8	335.8	335.8	335.8	335.8	335.8	335.8	*335.8*	335.8	335.8	335.8
2.5°	327.9	329.4	330.5	331.1	331.9	333.7	334.2	*335.0*	335.4	335.4	336.3
5°	315.0	316.6	318.8	320.7	324.4	329.3	332.7	*334.1*	336.5	338.6	339.8
7.5°	302.9	304.8	307.5	311.9	318.3	326.0	333.3	*335.1*	339.8	344.4	346.6
10°	295.2	296.7	300.1	306.4	314.8	325.6	335.8	*338.1*	346.1	353.7	358.0
12.5°	292.5	293.8	297.5	304.5	315.0	327.7	341.7	*345.0*	356.8	367.9	373.9
15°	296.4	296.7	300.5	307.2	317.5	332.6	351.4	*355.4*	370.3	384.7	392.2
17.5°	311.3	310.1	312.2	315.1	323.2	339.1	361.7	*367.7*	387.5	404.5	411.6
20°	348.8	348.8	344.2	336.2	336.3	349.3	375.6	*382.4*	406.6	426.3	432.7
22.5°	412.8	411.6	402.5	382.8	364.8	366.8	392.6	*401.4*	429.6	450.6	452.7
25°	489.7	488.3	474.2	446.6	415.3	395.1	415.6	*425.7*	457.0	475.6	471.2
27.5°	571.3	570.1	556.2	521.8	477.3	440.3	443.0	*452.6*	484.9	503.2	489.2
30°	650.2	650.6	636.9	601.6	551.2	497.9	477.7	*483.3*	512.1	530.6	510.6
32.5°	725.3	725.9	714.0	674.5	627.5	564.8	525.8	*524.4*	543.6	561.9	538.9
35°	792.3	793.6	785.5	754.9	705.0	639.4	588.2	*584.7*	588.4	609.1	582.3
37.5°	856.8	857.6	851.5	825.7	784.0	721.3	667.1	*662.1*	654.4	670.3	639.7
40°	927.5	925.5	918.4	895.0	859.2	811.8	751.8	*743.2*	729.7	743.9	715.0
42.5°	993.2	991.0	992.2	965.7	935.5	904.8	850.5	*835.8*	827.9	844.3	807.5
45°	1075.4	1074.2	1078.2	1055.2	1030.8	1008.5	963.7	*947.7*	944.2	963.3	919.4
47.5°	1156.5	1159.5	1171.9	1162.1	1152.3	1132.6	1083.6	*1076.4*	1078.5	1101.6	1037.3
50°	1224.2	1227.6	1261.7	1272.9	1287.2	1275.7	1226.6	*1222.1*	1230.6	1251.4	1164.3
52.5°	1273.1	1280.1	1322.5	1374.2	1426.3	1434.1	1385.0	*1381.0*	1392.4	1395.6	1262.4
55°	1307.0	1313.3	1361.3	1455.9	1562.0	1595.4	1564.9	*1549.4*	1547.3	1515.6	1365.5
57.5°	1313.0	1312.3	1381.3	1508.6	1668.3	1754.5	1735.3	*1720.0*	1676.2	1626.5	1483.8
60°	1279.1	1282.9	1363.0	1526.9	1735.1	1874.9	1876.4	*1856.6*	1788.3	1734.3	1598.4
62.5°	1174.6	1190.3	1271.2	1479.0	1734.3	1923.4	1979.8	*1964.7*	1883.1	1822.7	1714.7
65°	1005.1	1010.8	1087.9	1314.6	1617.1	1903.1	2072.9	*2067.3*	1968.5	1908.5	1774.4
67.5°	734.0	721.9	802.8	1035.2	1369.1	1784.7	2139.8	*2146.8*	2034.3	1926.1	1710.8
68°	*669.9*	*673.5*	*736.5*	*966.1*	*1304.2*	*1742.9*	*2144.2*	*2155.0*	*2040.9*	*1914.6*	*1676.1*
70°	399.3	406.2	462.5	665.2	992.2	1506.2	2096.6	*2121.3*	2001.9	1796.1	1449.7
72.5°	102.0	110.2	163.4	297.7	566.7	1061.3	1769.9	*1811.7*	1738.1	1457.1	978.7
75°	42.0	44.1	58.4	98.1	211.1	478.1	1166.6	*1256.1*	1204.9	872.3	442.3
77.5°	29.0	30.5	37.5	54.4	91.4	162.1	571.9	*636.6*	573.5	297.7	96.5
80°	20.8	22.0	26.9	36.2	52.5	57.9	186.4	*215.5*	171.2	65.3	23.9
82.5°	12.4	13.4	20.0	25.8	31.9	27.7	46.4	*52.6*	49.6	32.5	10.7
85°	6.1	7.2	13.5	18.4	17.2	11.6	14.2	*15.8*	19.5	19.8	5.7
87.5°	0.4	0.8	7.9	11.1	4.8	2.7	4.1	*5.1*	6.9	9.8	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0

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Scaled Data Report

REPORT NUMBER: P322385
CATALOG NUMBER: GLEON-SA1A-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8
2.5°	336.7	336.9	335.9	335.5	335.8	334.2	333.5	333.8	333.8	334.2	333.5
5°	340.1	340.1	338.5	336.3	335.1	332.1	330.1	329.5	329.1	328.9	328.3
7.5°	347.3	346.5	343.7	339.0	335.0	328.3	323.2	320.6	319.2	318.7	318.3
10°	358.9	357.5	352.8	344.1	334.9	323.0	311.9	304.0	297.5	294.8	293.2
12.5°	374.6	372.4	364.5	350.1	333.9	312.0	288.0	264.8	243.3	234.5	230.1
15°	392.6	389.5	377.1	355.2	328.5	287.3	235.0	194.6	164.8	153.5	148.7
17.5°	410.9	406.9	388.1	358.4	312.0	236.1	164.9	124.5	104.6	99.3	97.4
20°	429.3	423.5	397.5	356.0	274.9	170.2	108.8	91.0	85.3	83.7	83.1
22.5°	446.8	437.8	406.1	346.6	217.7	114.3	86.1	80.4	78.6	77.6	77.4
25°	462.1	449.4	413.6	317.8	154.1	86.3	77.5	75.6	73.2	71.5	71.6
27.5°	476.4	461.0	418.1	270.2	102.8	73.8	71.8	69.2	64.8	62.3	62.3
30°	493.6	476.5	421.5	207.9	75.6	65.2	63.6	59.7	53.7	50.4	50.4
32.5°	519.5	500.0	419.3	145.9	62.7	57.3	53.6	48.2	41.7	38.5	38.4
35°	559.2	536.4	404.1	95.7	55.3	49.8	43.8	37.3	31.5	28.9	28.7
37.5°	612.7	585.0	369.9	68.4	49.6	42.9	35.7	28.5	24.2	22.4	22.3
40°	682.0	641.5	321.0	55.5	44.2	36.2	27.5	22.0	19.1	17.8	17.9
42.5°	765.3	702.1	262.3	47.8	39.0	29.8	21.5	17.4	15.5	14.6	14.3
45°	857.7	761.8	200.8	42.6	33.8	24.1	16.8	13.8	12.3	11.8	11.8
47.5°	959.4	819.9	147.0	38.1	28.2	18.6	13.5	11.2	10.0	9.6	9.5
50°	1051.8	860.3	106.0	33.3	23.1	14.7	11.0	9.4	8.6	8.0	8.0
52.5°	1128.7	873.0	78.0	28.1	18.7	11.8	9.1	8.0	7.2	6.8	6.8
55°	1196.5	867.8	58.0	23.1	15.1	9.6	7.8	6.8	6.1	5.7	5.7
57.5°	1261.4	850.9	43.3	18.8	12.2	7.8	6.5	5.7	5.1	4.8	4.8
60°	1314.5	822.9	32.2	15.2	9.8	6.3	5.5	4.7	4.1	3.7	3.7
62.5°	1357.5	791.9	23.7	12.6	7.8	4.9	4.3	3.9	3.1	2.7	2.7
65°	1357.8	740.4	17.8	10.4	6.0	3.9	3.2	3.1	2.0	1.6	1.5
67.5°	1259.6	638.3	13.6	9.0	4.7	2.9	2.4	2.5	1.1	0.7	0.5
68°	*1223.9*	*612.4*	*12.8*	*8.8*	*4.4*	*2.8*	*2.3*	*2.5*	*0.9*	*0.5*	*0.4*
70°	1031.9	487.2	10.3	8.6	3.9	2.1	1.9	2.5	0.8	0.4	0.3
72.5°	660.0	282.8	7.6	6.8	2.9	1.6	1.2	2.3	0.8	0.3	0.1
75°	280.9	87.7	5.2	4.8	1.7	1.2	0.8	1.5	0.5	0.1	0.0
77.5°	59.2	19.8	3.1	2.9	1.2	0.8	0.5	0.4	0.1	0.0	0.0
80°	15.2	5.7	1.6	1.5	0.7	0.4	0.3	0.0	0.0	0.0	0.0
82.5°	4.8	2.3	0.9	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	1.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

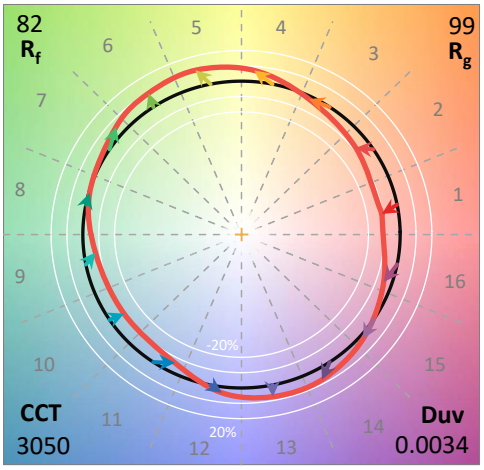
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

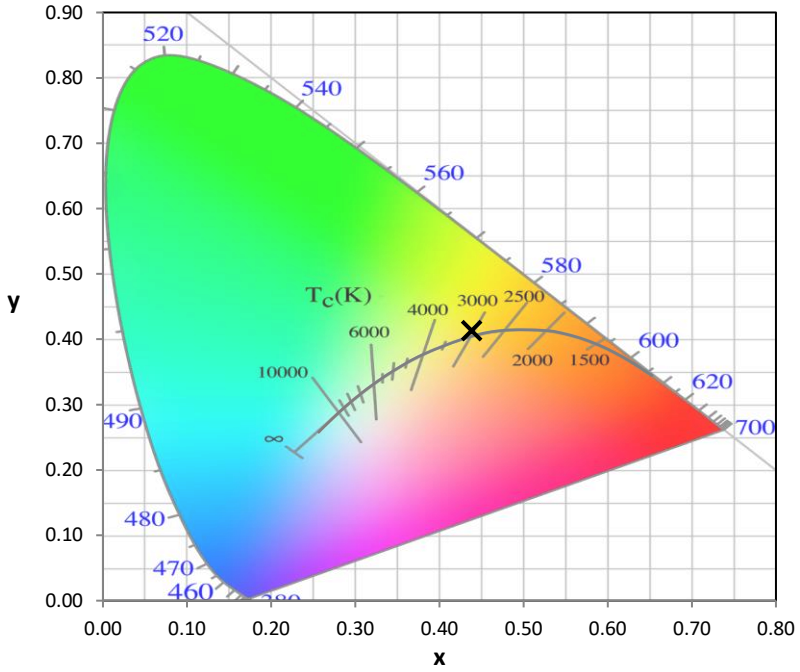
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

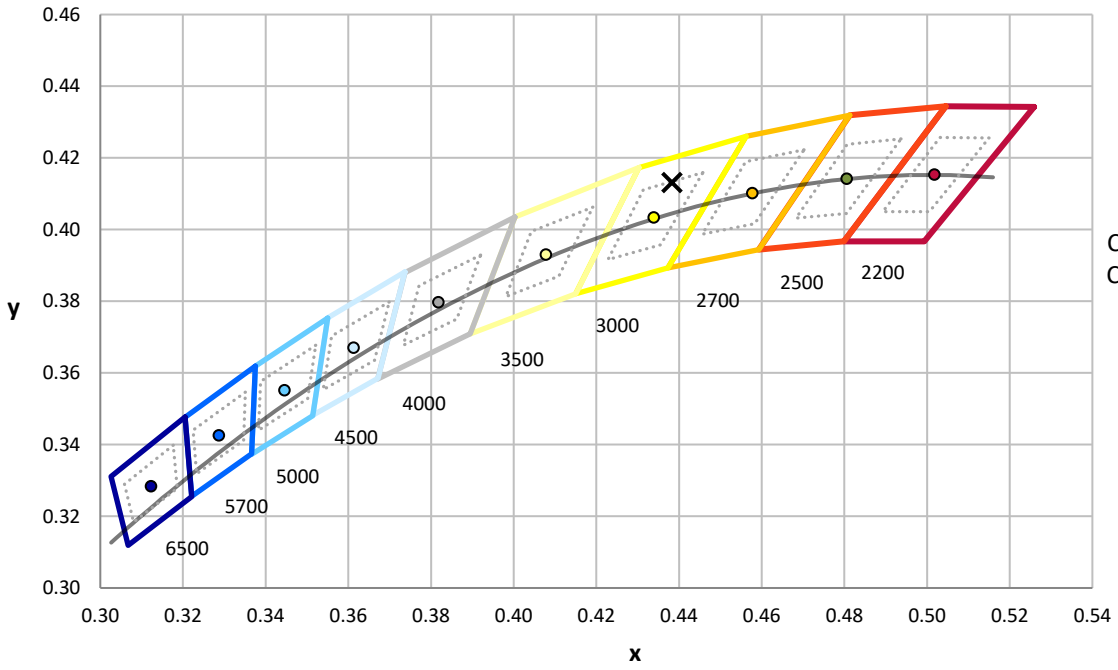
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

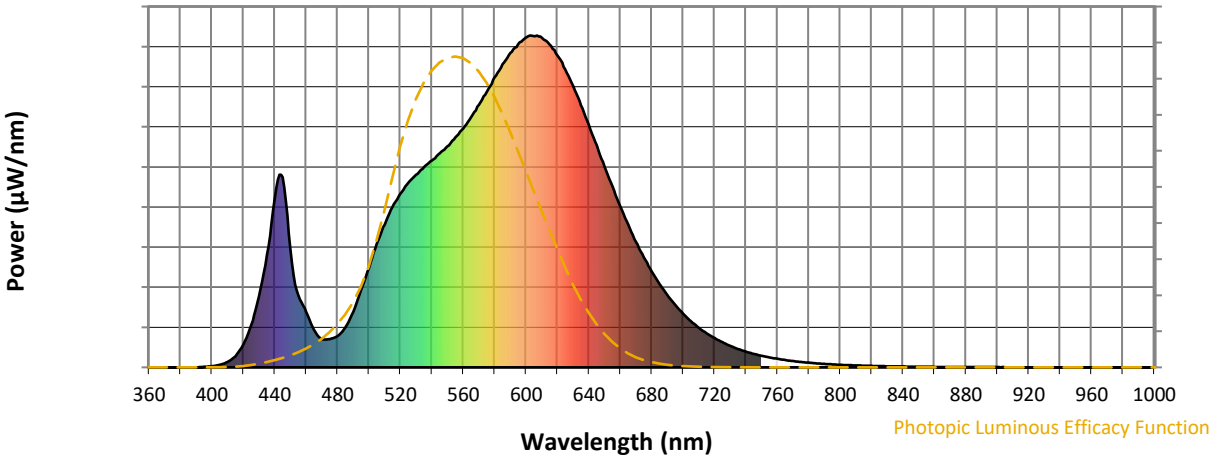


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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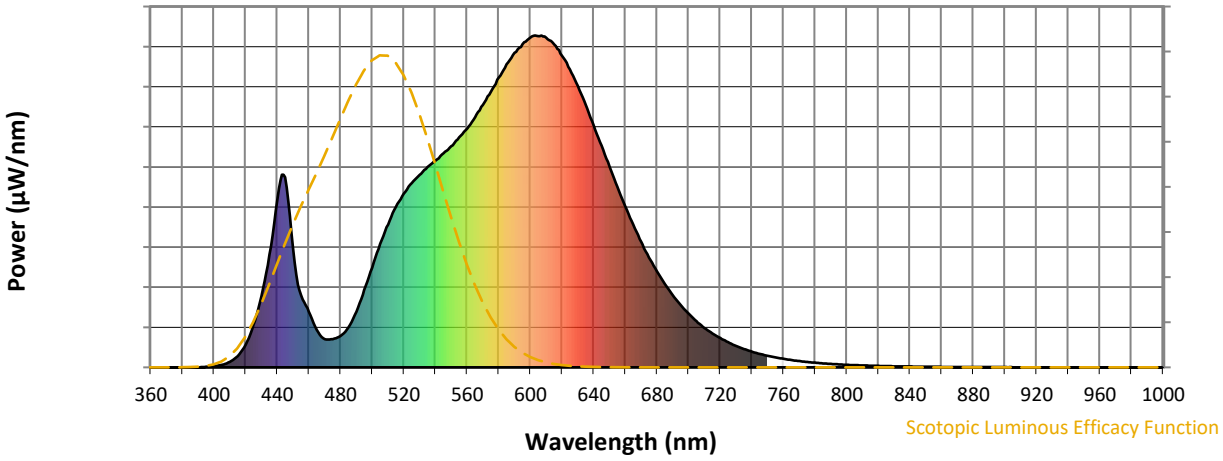
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.27**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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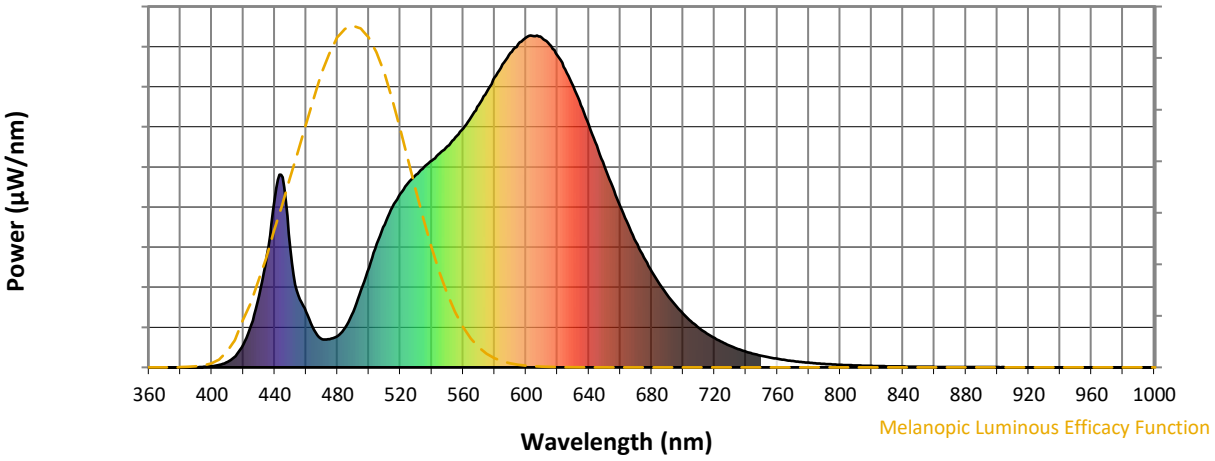
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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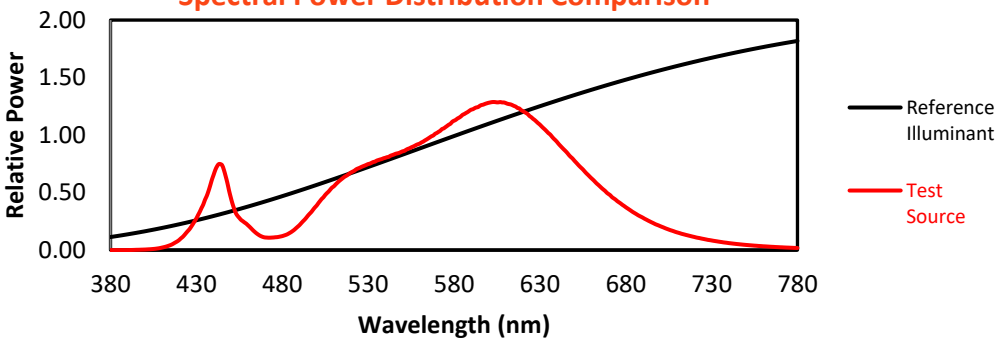
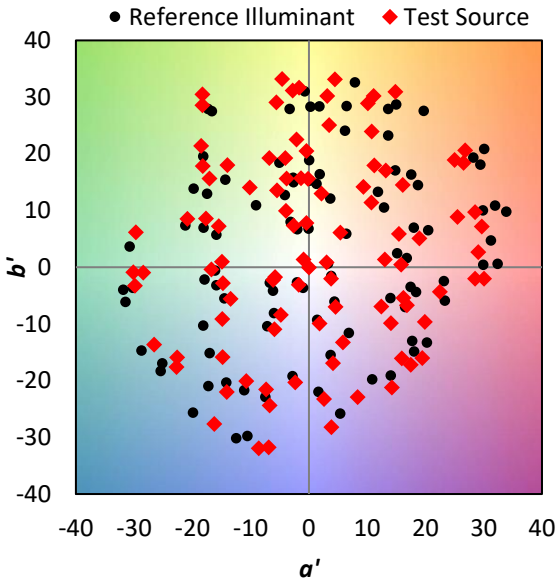
Summary

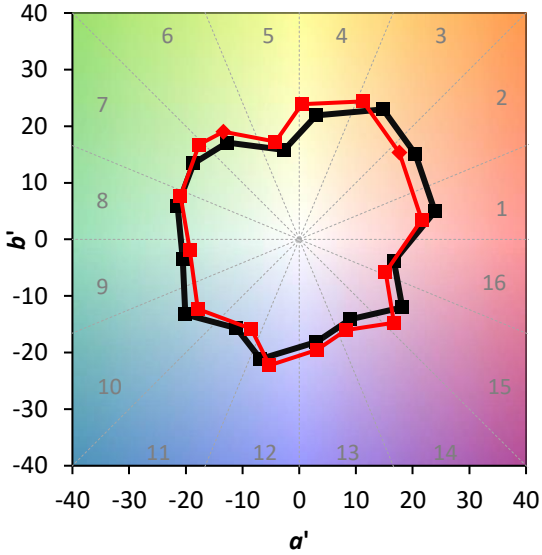
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

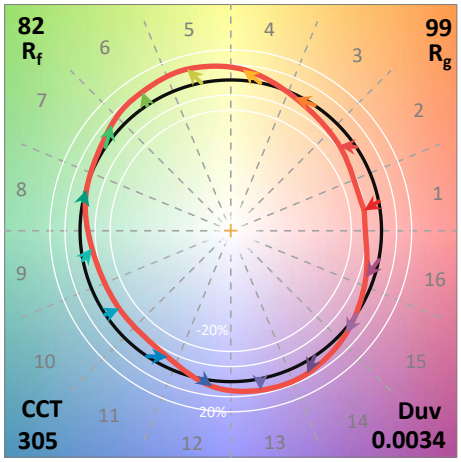
Spectral Power Distribution Comparison

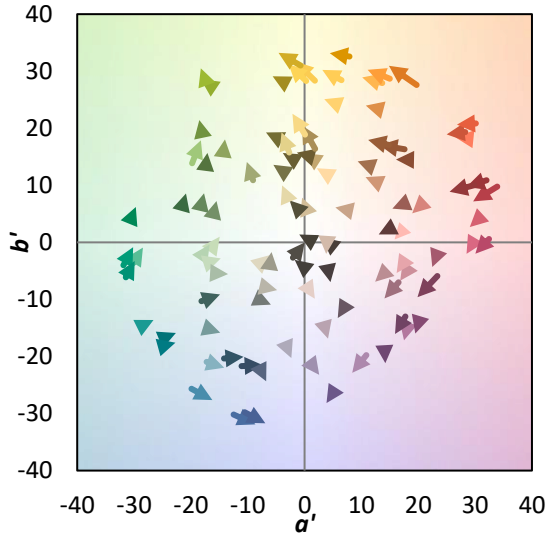


Color Vector Graphics









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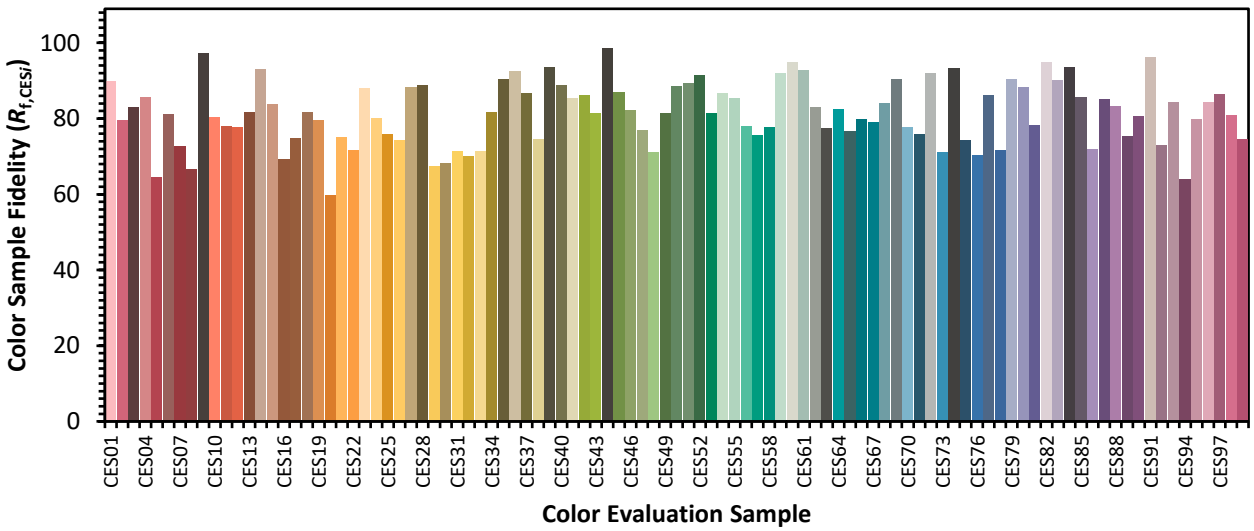
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



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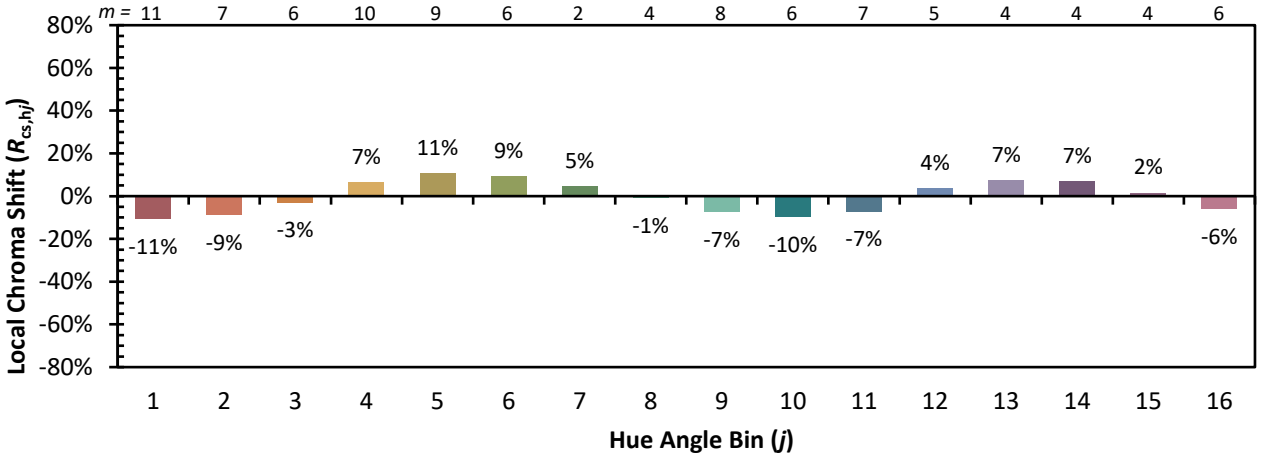
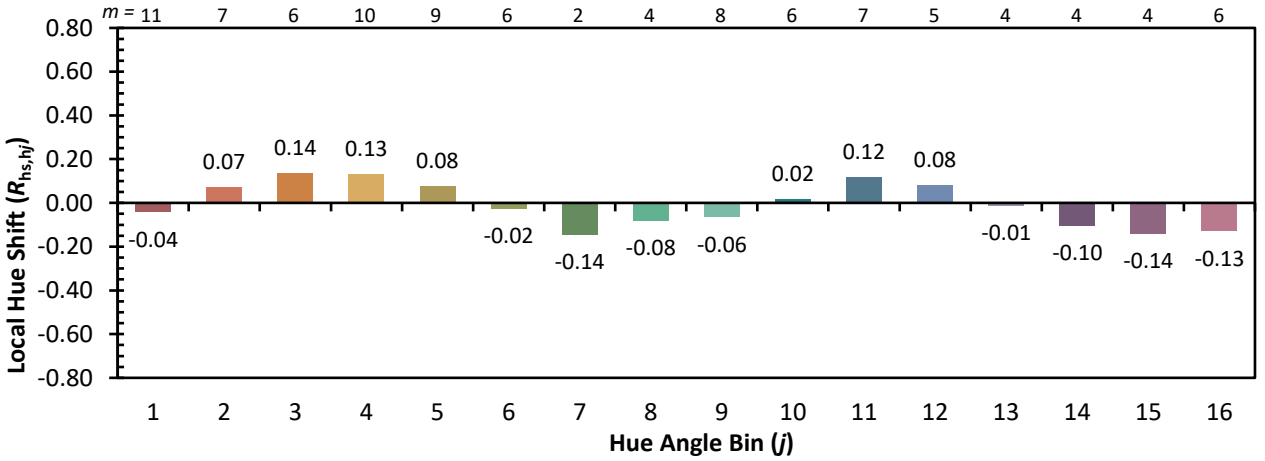
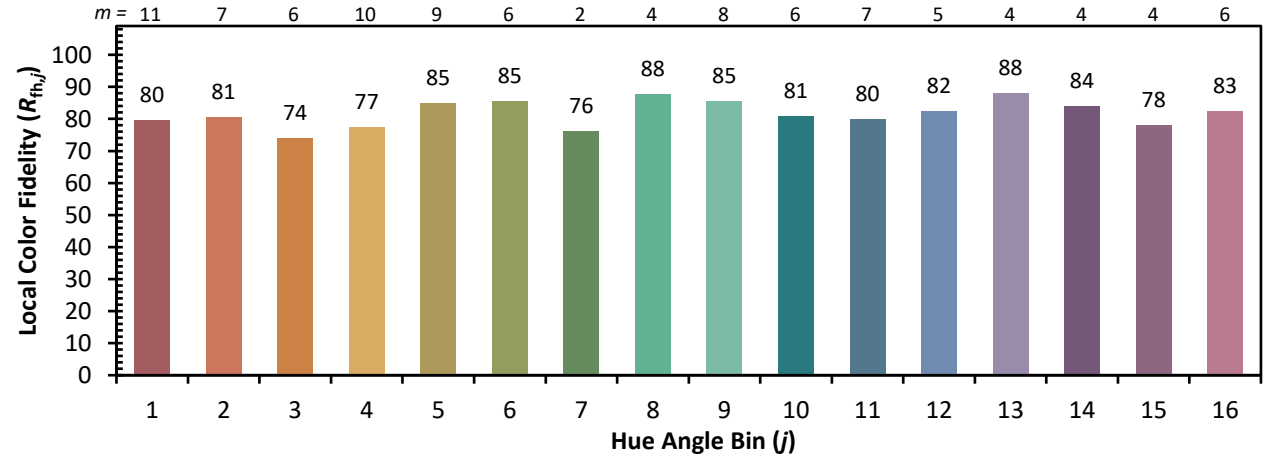
Color Rendition by Hue-Angle Bin







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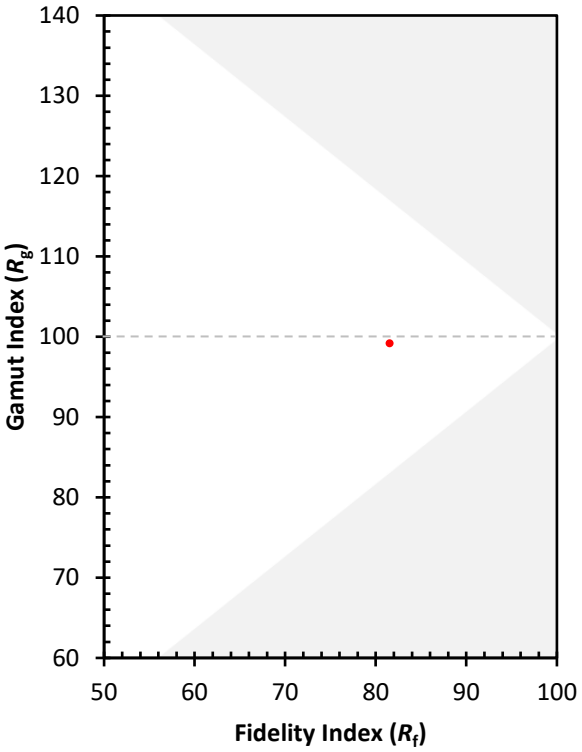
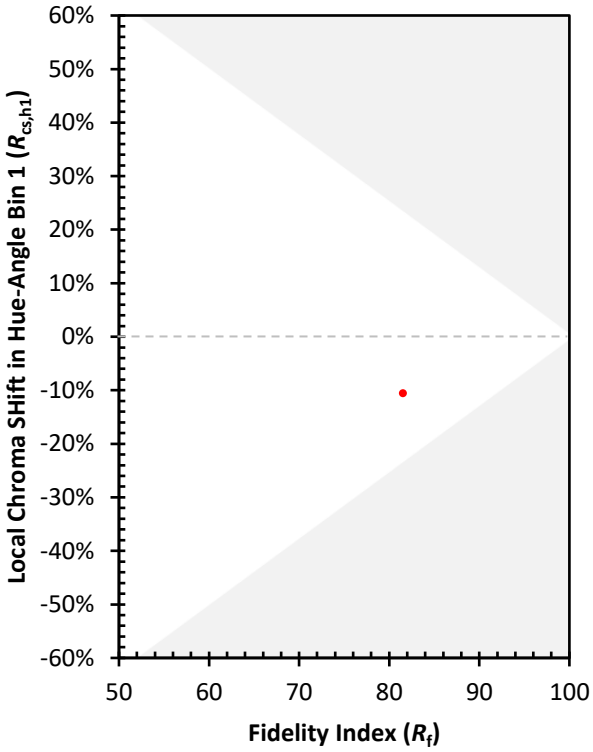
Measure Comparisons





(END OF REPORT)